

# Mineral Wool Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
327993, Mineral wool manufacturing . . . . . 2002..	197	304	19 318	814 588	15 788	32 844	620 754	2 951 014	1 978 851	4 917 908	'548 500
2001..	N	N	20 553	865 290	16 768	35 683	656 487	2 598 924	2 174 348	4 786 302	203 243
2000..	N	N	20 983	872 132	17 214	37 403	660 144	2 648 917	2 128 821	4 783 882	274 119
1999..	N	N	21 773	862 381	17 855	38 296	653 253	2 772 728	1 980 944	4 752 256	307 317
1998..	N	N	22 498	862 871	18 221	37 634	656 774	2 692 889	1 877 088	4 564 483	287 646
1997..	201	298	21 610	811 380	17 791	36 164	624 686	2 601 843	1 803 109	4 422 507	282 825

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
327993, Mineral wool manufacturing												
United States .....	—	304	133	19 318	814 588	15 788	32 844	620 754	2 951 014	1 978 851	4 917 908	'548 500
Alabama .....	—	11	5	834	35 407	666	1 467	26 614	127 998	100 405	226 852	'6 382
Colorado .....	—	6	3	231	5 870	193	229	4 472	23 451	9 409	31 420	D
Florida .....	—	15	2	378	20 172	285	672	14 562	62 307	37 756	100 996	D
Georgia .....	—	16	9	1 904	89 783	1 603	3 610	69 882	283 261	211 496	493 433	'40 891
Indiana .....	—	13	7	1 484	51 829	1 147	2 155	39 972	206 630	146 120	350 066	'14 781
Kansas .....	—	5	4	1 089	59 436	868	1 834	43 612	301 644	152 686	452 996	'25 806
Michigan .....	—	8	5	725	24 921	542	950	18 399	68 736	59 214	129 539	'11 585
New Jersey .....	5	10	7	723	37 147	578	1 280	27 127	126 635	97 238	223 398	'3 779
New York .....	1	16	4	568	32 083	424	958	25 750	171 890	41 869	214 448	'2 537
Pennsylvania .....	—	18	8	1 189	57 906	989	2 174	46 615	173 201	115 312	284 247	'13 802
Tennessee .....	—	12	4	291	8 363	214	443	4 624	32 335	30 846	63 667	'220
Texas .....	—	25	9	1 335	57 591	985	2 086	40 672	281 697	190 067	473 373	'13 737
Virginia .....	—	4	2	186	5 537	170	306	4 601	27 955	10 992	39 332	'394
Wisconsin .....	2	15	3	368	14 017	301	644	10 318	32 865	28 864	61 554	'901

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
327993, Mineral wool manufacturing	
Companies <sup>1</sup> .....	number.. 197
All establishments <sup>2</sup> .....	number.. 304
Establishments with 1 to 19 employees .....	number.. 171
Establishments with 20 to 99 employees .....	number.. 80
Establishments with 100 employees or more .....	number.. 53
All employees <sup>3</sup> .....	number.. 19 318
Total compensation .....	\$1,000.. 1 065 395
Annual payroll .....	\$1,000.. 814 588
Total fringe benefits .....	\$1,000.. 250 807
Production workers, average for year .....	number.. 15 788
Production workers on March 12 .....	number.. 15 991
Production workers on May 12 .....	number.. 16 059
Production workers on August 12 .....	number.. 15 680
Production workers on November 12 .....	number.. 15 383
Production worker hours .....	\$1,000.. 32 844
Production worker wages .....	\$1,000.. 620 754
Total cost of materials .....	\$1,000.. 1 978 851
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 465 891
Resales .....	\$1,000.. 123 777
Purchased fuels .....	\$1,000.. 176 608
Purchased electricity .....	\$1,000.. 162 688
Contract work .....	\$1,000.. 49 887
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 3 704 703
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. S
Total value of shipments .....	\$1,000.. 4 917 908
Primary products value of shipments .....	\$1,000.. 4 699 714
Secondary products value of shipments .....	\$1,000.. 53 015
Total miscellaneous receipts .....	\$1,000.. 165 179
Value of resales .....	\$1,000.. 153 360
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. D
Primary products specialization ratio .....	percent.. 99
Value of primary products shipments made in all industries .....	\$1,000.. 4 721 388
Value of primary products shipments made in this industry .....	\$1,000.. 4 699 714
Value of primary products shipments made in other industries .....	\$1,000.. 21 674
Coverage ratio .....	percent.. 100
Value added .....	\$1,000.. 2 951 014
Total inventories, beginning of year .....	\$1,000.. 389 883
Finished goods inventories .....	\$1,000.. 206 204
Work-in-process inventories .....	\$1,000.. 22 541
Materials and supplies inventories .....	\$1,000.. 161 138
Total inventories, end of year .....	\$1,000.. 388 008
Finished goods inventories .....	\$1,000.. 220 438
Work-in-process inventories .....	\$1,000.. 20 264
Materials and supplies inventories .....	\$1,000.. 147 306
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 3 732 725
Total capital expenditures (new and used) .....	\$1,000.. '548 500
Buildings and other structures (new and used) .....	\$1,000.. '103 026
Machinery and equipment (new and used) .....	\$1,000.. '445 474
Automobiles, trucks, etc., for highway use .....	\$1,000.. '2 278
Computers and peripheral data processing equipment .....	\$1,000.. '4 910
All other expenditures for machinery and equipment .....	\$1,000.. '438 286
Total retirements .....	\$1,000.. '201 460
Gross value of depreciable assets at end of year .....	\$1,000.. '4 079 765
Depreciation charges during year .....	\$1,000.. '189 793
Total rental payments .....	\$1,000.. 42 858
Buildings and other structures .....	\$1,000.. 19 313
Machinery and equipment .....	\$1,000.. 23 545
Total other expenses <sup>4</sup> .....	\$1,000.. 421 262
Response coverage ratio <sup>5</sup> .....	percent.. 95
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 69 347
Communications services <sup>4</sup> .....	\$1,000.. 4 891
Legal services <sup>4</sup> .....	\$1,000.. 2 602
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 1 791
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 533
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 8 940
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 24 750
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 4 670
Taxes and license fees <sup>4</sup> .....	\$1,000.. 30 446
All other expenses <sup>4</sup> .....	\$1,000.. 273 292

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
327993, Mineral wool manufacturing											
All establishments .....	—	304	19 318	814 588	15 788	32 844	620 754	2 951 014	1 978 851	4 917 908	'548 500
Establishments with—											
1 to 4 employees .....	9	74	142	6 256	120	238	4 963	19 885	13 143	32 903	'703
5 to 9 employees .....	6	54	365	16 126	294	616	12 303	51 612	39 447	90 791	'1 662
10 to 19 employees .....	3	43	581	23 621	439	902	15 640	79 554	69 053	146 271	D
20 to 49 employees .....	2	53	1 724	64 359	1 274	2 769	41 521	175 831	135 682	311 454	'8 577
50 to 99 employees .....	2	27	1 868	69 081	1 408	2 847	45 221	241 202	235 893	483 645	'20 190
100 to 249 employees .....	—	27	4 163	165 204	3 439	6 503	120 652	613 146	407 299	1 010 800	'202 389
250 to 499 employees .....	—	22	7 759	375 845	6 455	14 182	299 029	1 315 675	843 340	2 158 604	'96 157
500 to 999 employees .....	—	4	2 716	94 096	2 359	4 787	81 425	454 109	234 994	683 440	D
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	99	427	19 838	370	768	16 449	61 395	37 261	98 656	'2 285

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
327993	Mineral wool manufacturing . . . . .	304	19 318	814 588	15 788	32 844	620 754	2 951 014	1 978 851	4 917 908	'548 500
3279931	Mineral wool for thermal and acoustical envelope insulation (for homes and commercial, and industrial buildings) . . . . .	81	10 606	464 296	8 921	18 842	367 192	1 841 268	1 175 094	3 003 044	'479 645
3279934	Mineral wool for industrial, equipment, and appliance insulation . . . . .	59	6 482	257 023	5 095	10 639	183 939	862 490	600 374	1 466 734	'48 235

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
327993	Mineral wool manufacturing .....	2002.. N 1997.. N	X X	X X	4 721 388 4 277 880
3279931	Mineral wool for thermal and acoustical envelope insulation (for homes and commercial, and industrial buildings) .....	2002.. N 1997.. N	X X	X X	2 919 447 2 987 004
32799311	Loose fiber (blowing and pouring) (shipped as such) and granulated fiber, mineral wool for thermal and acoustical envelope insulation (for insulating homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	320 984 203 693
3279931111	Loose fiber (blowing and pouring) (shipped as such) and granulated fiber, mineral wool for thermal and acoustical envelope insulation (for insulating homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	320 984 203 693
32799312	Building batts, blankets, and rolls (in thermal resistance (R) values) R19 or more, mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	1 009 892 1 239 893
3279931211	Building batts, blankets, and rolls (in thermal resistance (R) values) R19 or more, mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	1 009 892 1 239 893
32799313	Building batts, blankets, and rolls (in thermal resistance (R) values) less than R19, mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	674 601 443 997
3279931311	Building batts, blankets, and rolls (in thermal resistance (R) values) R11 to R18.9, mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	589 589 367 921
3279931321	Building batts, blankets, and rolls (in thermal resistance (R) values) R10.9 or less, mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	85 012 76 076
32799314	Acoustical, such as wall and ceiling (sold as acoustical insulation), mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	615 727 884 882
3279931411	Acoustical, such as wall and ceiling (sold as acoustical insulation), mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	615 727 884 882
32799315	Board (including roof insulation) and other mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	290 425 209 137
3279931511	Board (such as roof insulation), mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	D 160 324
3279931521	Other mineral wool for thermal and acoustical envelope insulation (for homes and commercial and industrial buildings) .....	2002.. N 1997.. N	X X	X X	D 48 813
3279931Y	Mineral wool for thermal and acoustical envelope insulation (for homes and commercial, and industrial buildings), nsk .....	2002.. N 1997.. N	X X	X X	7 818 5 402
3279931YWV	Mineral wool for thermal and acoustical envelope insulation (for homes and commercial, and industrial buildings), nsk .....	2002.. N 1997.. N	X X	X X	7 818 5 402
3279934	Mineral wool for industrial, equipment, and appliance insulation .....	2002.. N 1997.. N	X X	X X	1 392 508 1 147 892
32799341	Blankets (flexible) (including fabricated pieces, rolls, and batts) .....	2002.. N 1997.. N	X X	X X	453 207 368 745
3279934111	Plain blankets (flexible) (including fabricated pieces, rolls, and batts), mineral wool for industrial, equipment, and appliance insulation .....	2002.. N 1997.. N	X X	X X	249 389 158 753
3279934121	Coated blankets (flexible) (including fabricated pieces, rolls, and batts), mineral wool for industrial, equipment, and appliance insulation .....	2002.. N 1997.. N	X X	X X	75 335 111 653
3279934131	Faced and metal meshed blankets (flexible) (including fabricated pieces, rolls, and batts), mineral wool for industrial, equipment, and appliance insulation .....	2002.. N 1997.. N	X X	X X	128 483 98 339
32799342	Special-purpose mineral wool for industrial, equipment, and appliance insulation pieces (special-purpose automotive, appliance, aerospace items and original equipment parts) .....	2002.. N 1997.. N	X X	X X	327 971 286 282
3279934211	Special-purpose mineral wool for industrial, equipment, and appliance insulation pieces (special-purpose automotive, appliance, aerospace items and original equipment parts) .....	2002.. N 1997.. N	X X	X X	327 971 286 282
32799343	Other mineral wool for industrial equipment and appliance insulation, except blankets and special-purpose mineral wool .....	2002.. N 1997.. N	X X	X X	537 877 492 350
3279934311	Other mineral wool for industrial equipment and appliance insulation, blocks and boards .....	2002.. N 1997.. N	X X	X X	10 093 52 656

See footnotes at end of table.



Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
327993	Mineral wool manufacturing—Con.				
3279934	Mineral wool for industrial, equipment, and appliance insulation—Con.				
32799343	Other mineral wool for industrial equipment and appliance insulation, except blankets and special-purpose mineral wool—Con.				
3279934321	Mineral wool for industrial, equipment, and appliance pipe insulation .....2002..	11	X	X	D
	.....1997..	9	X	X	165 624
3279934331	Mineral wool for industrial, equipment, and appliance acoustical insulation (including pads, boards, patches, etc.) .....2002..	9	X	X	D
	.....1997..	10	X	X	31 731
3279934341	Other mineral wool for industrial, equipment, and appliance insulation (including air duct, loose fiber, granulated fiber, insulating and finishing cements, etc.) .....2002..	7	X	X	190 955
	.....1997..	17	X	X	242 339
3279934Y	Mineral wool for industrial, equipment, and appliance insulation, nsk .....2002..	N	X	X	73 453
	.....1997..	N	X	X	515
3279934YWV	Mineral wool for industrial, equipment, and appliance insulation, nsk .....2002..	N	X	X	73 453
	.....1997..	N	X	X	515
327993W	Mineral wool manufacturing, nsk, total .....2002..	N	X	X	409 433
	.....1997..	N	X	X	142 984
327993WY	Mineral wool manufacturing, nsk, total .....2002..	N	X	X	409 433
	.....1997..	N	X	X	142 984
327993WYWW	Mineral wool manufacturing, nsk, for nonadministrative-record establishments .....2002..	N	X	X	313 801
	.....1997..	N	X	X	46 096
327993WYWY	Mineral wool manufacturing, nsk, for administrative-record establishments .....2002..	N	X	X	95 632
	.....1997..	N	X	X	96 888

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3279931	Mineral wool for thermal and acoustical envelope insulation (for homes and commercial, and industrial buildings)	
	United States .....	2002.. 2 919 447
		1997.. 2 987 004
	Alabama .....	2002.. 160 961
		1997.. 144 994
	Colorado .....	2002.. 24 558
		1997.. N
	Georgia .....	2002.. 396 213
		1997.. 383 859
	Indiana .....	2002.. 122 030
		1997.. 138 916
	Kansas .....	2002.. 422 819
		1997.. 333 808
	Pennsylvania .....	2002.. 249 443
		1997.. 215 008
	Tennessee .....	2002.. 12 385
		1997.. 21 036
	Texas .....	2002.. 134 548
		1997.. N
	Wisconsin .....	2002.. 22 142
		1997.. 48 041
3279934	Mineral wool for industrial, equipment, and appliance insulation	
	United States .....	2002.. 1 392 508
		1997.. 1 147 892
	Alabama .....	2002.. 56 220
		1997.. 38 022
	Georgia .....	2002.. 82 519
		1997.. 25 237
	Indiana .....	2002.. 174 546
		1997.. 169 402
	Pennsylvania .....	2002.. 4 449
		1997.. 15 263
	Texas .....	2002.. 294 169
		1997.. 164 865

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
327993	Mineral wool manufacturing		
00900001	Total materials .....2002..	X	1 465 891
	.....1997..	X	1 367 346
21232401	Kaolin and ball clay .....2002..	X	7 582
	.....1997..	X	N
21239301	Mining and quarrying of chemical and fertilizer minerals (including barite, borate, potash, fluorspar, and rocksalt) .....2002..	X	94 242
	.....1997..	X	69 679
21232002	Sand and gravel .....2002..	X	31 160
	.....1997..	X	N
21230001	Mining and quarrying of other nonmetallic minerals (excluding fuels) .....2002..	X	129 384
	.....1997..	X	174 061
31320005	Cotton and manmade fiber fabrics, broadwoven and narrow woven .....2002..	X	10 972
	.....1997..	X	20 995
32222403	Paper shipping sacks and multiwall bags .....2002..	X	17 365
	.....1997..	X	49 636
32220011	Other converted paper and paperboard products .....2002..	X	31 338
	.....1997..	X	45 091
32200007	Other paper and paperboard products .....2002..	X	37 617
	.....1997..	X	49 265
325000C1	Industrial inorganic chemicals (excluding glue and adhesives, and other chemicals and allied products) .....2002..	X	D
	.....1997..	X	N
32500047	Other chemical and allied products .....2002..	X	74 177
	.....1997..	X	24 966
32552002	Glues and adhesives .....2002..	X	22 094
	.....1997..	X	N
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	55 748
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	57 707
	.....1997..	X	47 464
32721204	Glass fiber (textile-type, bonded mat type, etc.) .....2002..	X	156 313
	.....1997..	X	N
32731005	Portland and blended cements .....2002..	X	D
	.....1997..	X	N
33111103	Crude blast furnace slag .....2002..	X	20 202
	.....1997..	X	22 366
33131511	Aluminum sheet, plate, foil, and welded tubings .....2002..	X	7 230
	.....1997..	X	63 062
32222501	Converted aluminum foil .....2002..	X	19 314
	.....1997..	X	9 561
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	399 051
	.....1997..	X	665 719
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	262 182
	.....1997..	X	125 481

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.